Page: 1 of 49

Appendix B

GSM 850 & 1900



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Page: 2 of 49

CONTENT

	ı	Page
1.	Effective (Isotropic) Radiated Power Output Data	4
	1.1. Test Result	4
2.	PEAK-TO-AVERAGE RATIO	6
	2.1. Test Result	6
	2.2. Part II - Test Plots	7
3.	Modulation Characteristics	13
	3.1. For GSM	13
	3.1.1. Test Band = GSM 850	13
	3.1.1.1. Test Mode = GSM/TM1	13
	3.1.1.1.1. Test Channel = MCH	13
	3.1.1.2. Test Mode = GSM/TM2	14
	3.1.1.2.1. Test Channel = MCH	14
	3.1.2. Test Band = GSM 1900	15
	3.1.2.1. Test Mode = GSM/TM1	15
	3.1.2.1.1. Test Channel = MCH	15
	3.1.2.2. Test Mode = GSM/TM2	16
	3.1.2.2.1. Test Channel = MCH	16
4.	26dB Bandwidth and Occupied Bandwidth	17
	4.1. Test Result	17
	4.2. Test Plots	17
5.	BAND EDGE COMPLIANCE	24
	5.1. Test Plots	24
6.	Spurious Emission at Antenna Terminal	29
	6.1. Test Plots	29
7.	FIELD STRENGTH OF SPURIOUS RADIATION	42
	7.1. Test Band = GSM 1900	42
	7.1.1. Test Channel = LCH	42
	7.1.2. Test Channel = MCH	42
	7.1.3. Test Channel = HCH	43
	7.2. Test Band = GSM 850	43
	7.2.1. Test Channel = LCH	43
	7.2.2. Test Channel = MCH	44
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Report No.: ZR/2020/9003701

Page: 3 of 49

	7.2.3.	Test Channel = HCH	.44
8.	FRE	QUENCY STABILITY	.45
	8.1.	Frequency Error Vs Voltage	.45
	8.2.	Frequency Error Vs Temperature	.46



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Page: 4 of 49

1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128		32.68	23.53	38.45	PASS
GSM850	190		32.51	23.36	38.45	PASS
GSM850	251		32.30	23.15	38.45	PASS
EGPRS850	128	1	26.64	17.49	38.45	PASS
EGPRS850	128	2	23.97	14.82	38.45	PASS
EGPRS850	128	3	23.52	14.37	38.45	PASS
EGPRS850	128	4	22.33	13.18	38.45	PASS
EGPRS850	190	1	26.38	17.23	38.45	PASS
EGPRS850	190	2	23.97	14.82	38.45	PASS
EGPRS850	190	3	23.25	14.1	38.45	PASS
EGPRS850	190	4	21.99	12.84	38.45	PASS
EGPRS850	251	1	26.31	17.16	38.45	PASS
EGPRS850	251	2	23.88	14.73	38.45	PASS
EGPRS850	251	3	23.13	13.98	38.45	PASS
EGPRS850	251	4	21.87	12.72	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512		29.45	23.45	33.00	PASS
GSM1900	661		29.94	23.94	33.00	PASS
GSM1900	810		30.03	24.03	33.00	PASS
EGPRS1900	512	1	24.80	18.8	33.00	PASS
EGPRS1900	512	2	22.67	16.67	33.00	PASS
EGPRS1900	512	3	21.47	15.47	33.00	PASS
EGPRS1900	512	4	20.40	14.4	33.00	PASS
EGPRS1900	661	1	25.40	19.4	33.00	PASS
EGPRS1900	661	2	23.24	17.24	33.00	PASS
EGPRS1900	661	3	22.04	16.04	33.00	PASS
EGPRS1900	661	4	20.92	14.92	33.00	PASS
EGPRS1900	810	1	25.61	19.61	33.00	PASS
EGPRS1900	810	2	23.45	17.45	33.00	PASS
EGPRS1900	810	3	22.35	16.35	33.00	PASS
EGPRS1900	810	4	21.17	15.17	33.00	PASS

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Page: 5 of 49

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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Page: 6 of 49

2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.87	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	8.9	13	PASS
EGPRS850	128	12.49	13	PASS
EGPRS850	190	12.72	13	PASS
EGPRS850	251	12.7	13	PASS
GSM1900	512	8.87	13	PASS
GSM1900	661	8.9	13	PASS
GSM1900	810	9.74	13	PASS
EGPRS1900	512	11.91	13	PASS
EGPRS1900	661	12.75	13	PASS
EGPRS1900	810	12.78	13	PASS

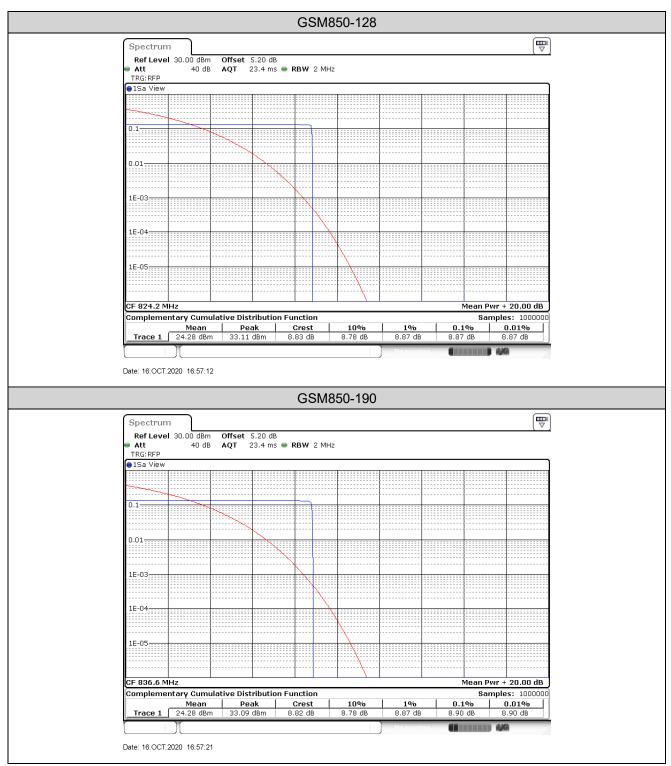


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2.2. Part II - Test Plots





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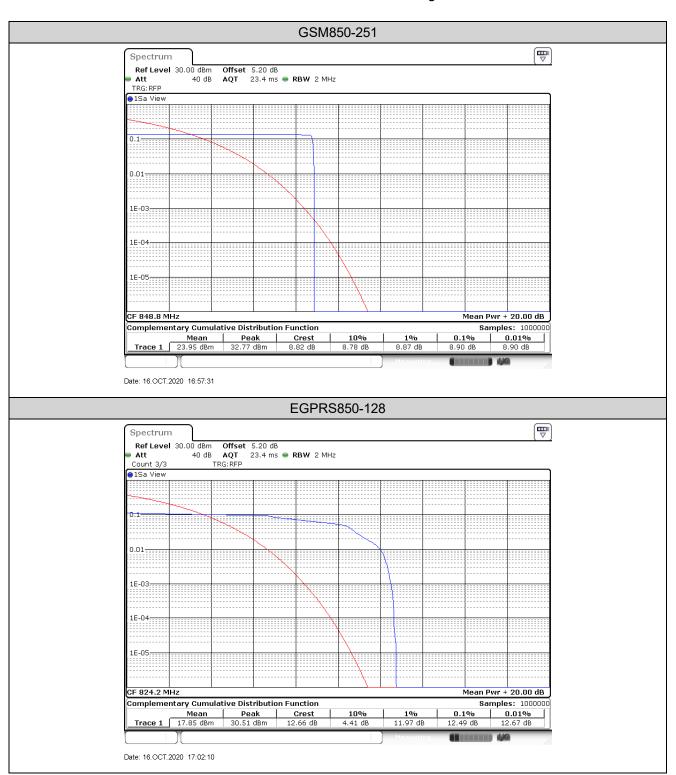
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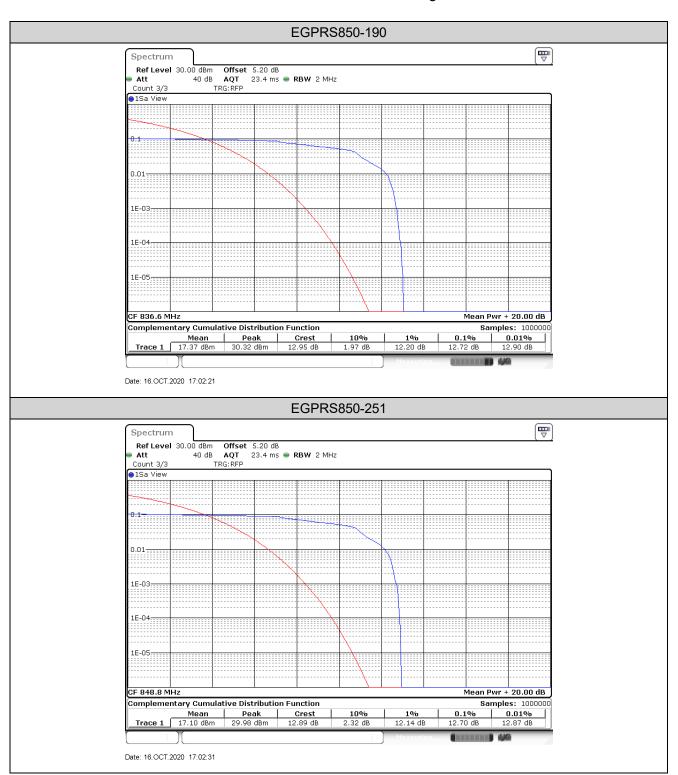
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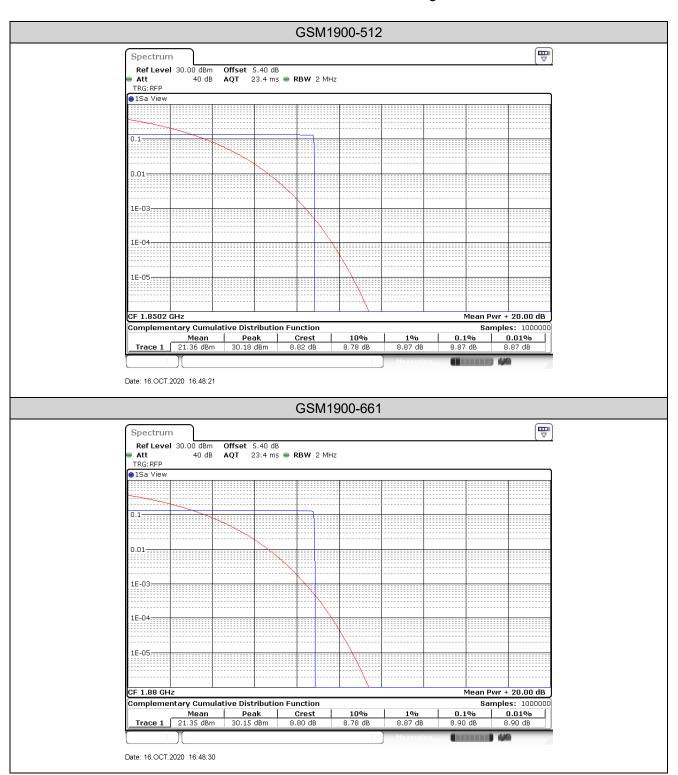
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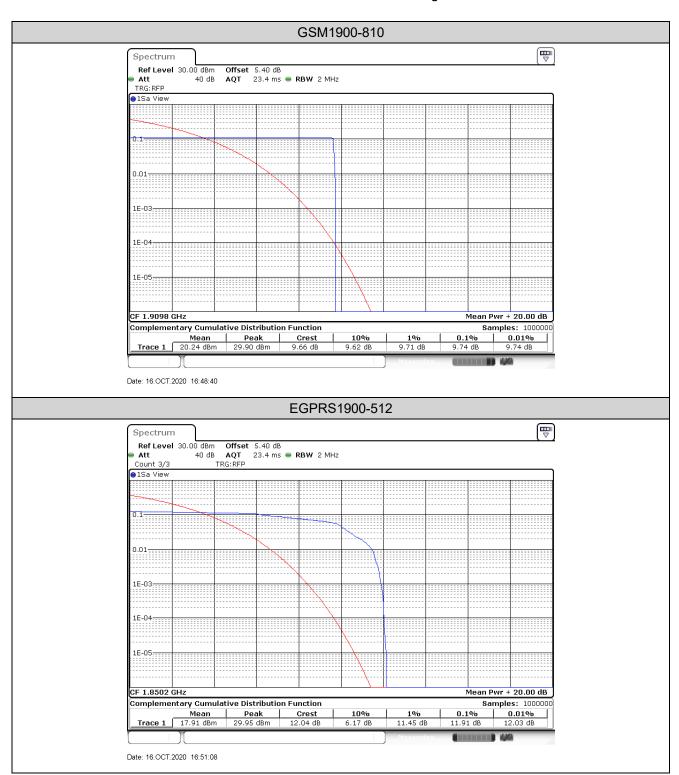
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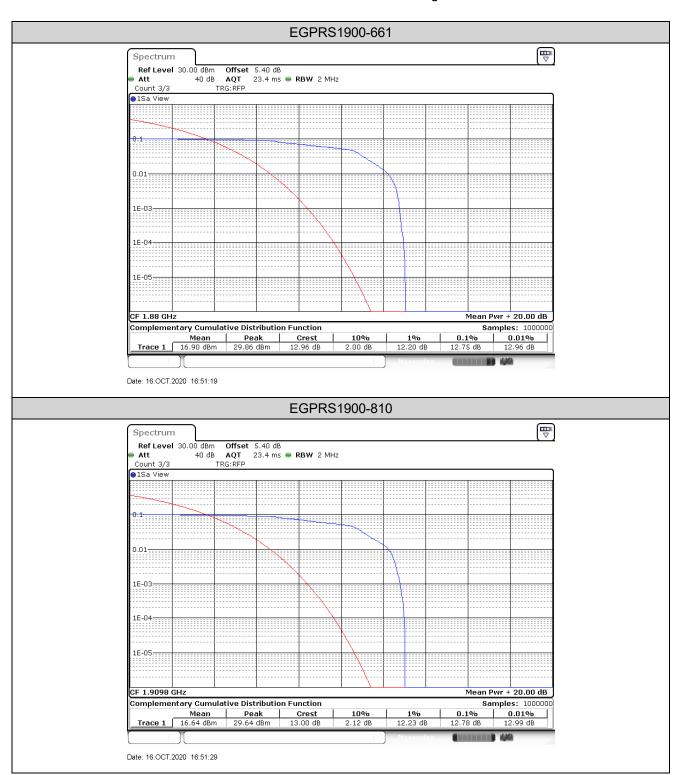
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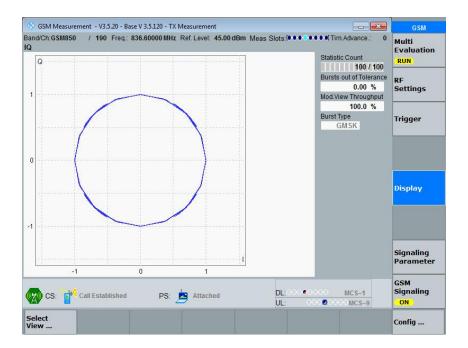
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH

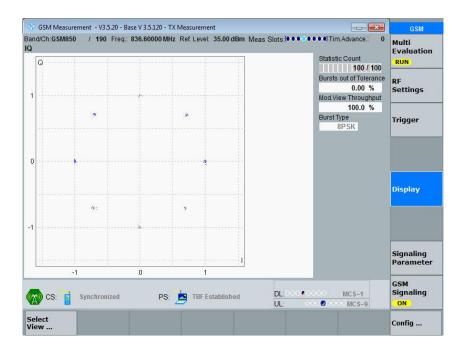




Page: 14 of 49

3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH





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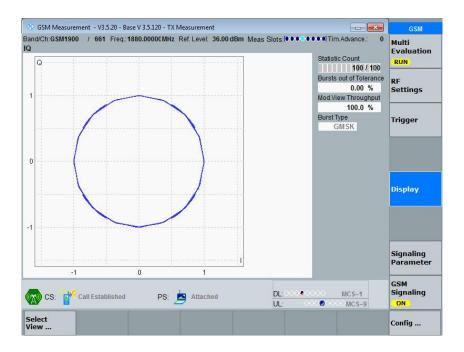
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15 of 49 Page:

3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH





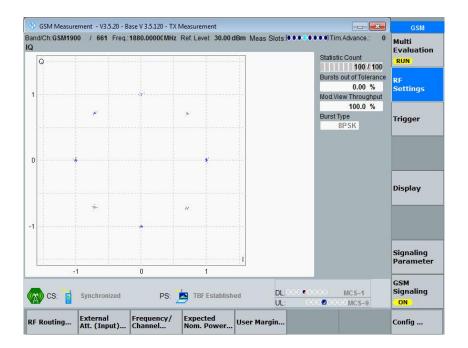
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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH





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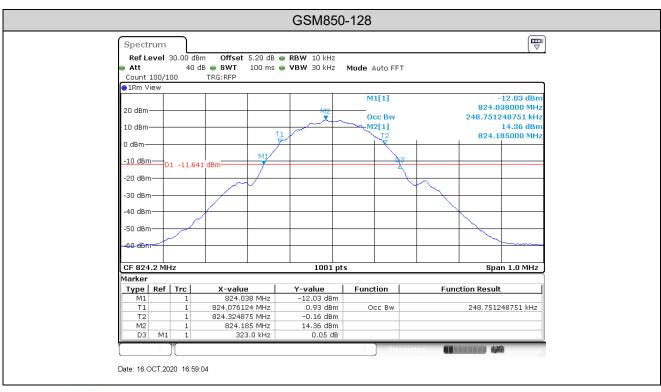
Page: 17 of 49

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Donal	Channal	Occupied	26dB Bandwidth	Limit	\
Band	Channel	Bandwidth (MHz)	(MHz)	(MHz)	Verdict
GSM850	128	128 0.249 0.323			PASS
GSM850	190	0.248	0.323		PASS
GSM850	251	0.248	0.323		PASS
EGPRS850	128	0.248	0.318		PASS
EGPRS850	190	0.248	0.321		PASS
EGPRS850	251	0.248	0.320		PASS
GSM1900 512		0.247	0.324		PASS
GSM1900 661		0.247	0.323		PASS
GSM1900 810		0.247	0.323		PASS
EGPRS1900	EGPRS1900 512		0.318		PASS
EGPRS1900	661	0.246	0.317		PASS
EGPRS1900 810		0.248	0.318		PASS

4.2. Test Plots





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Report No.: ZR/2020/9003701

Page: 18 of 49





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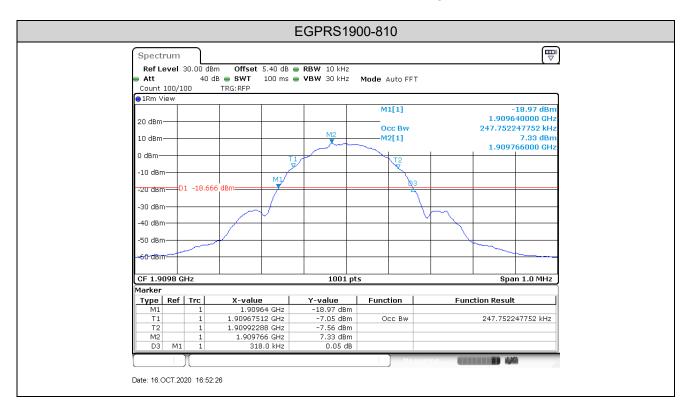
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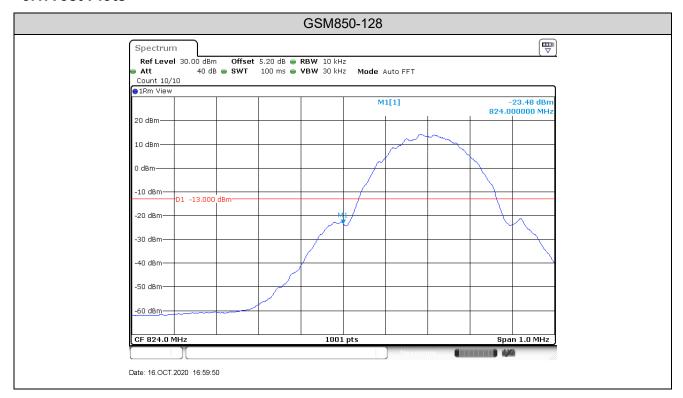
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Page: 24 of 49

5. Band Edge Compliance

5.1. Test Plots



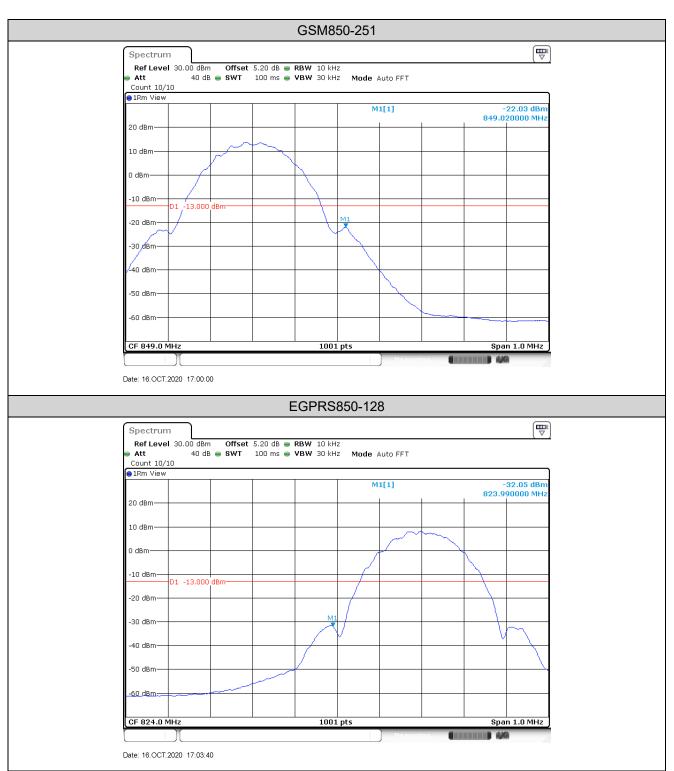


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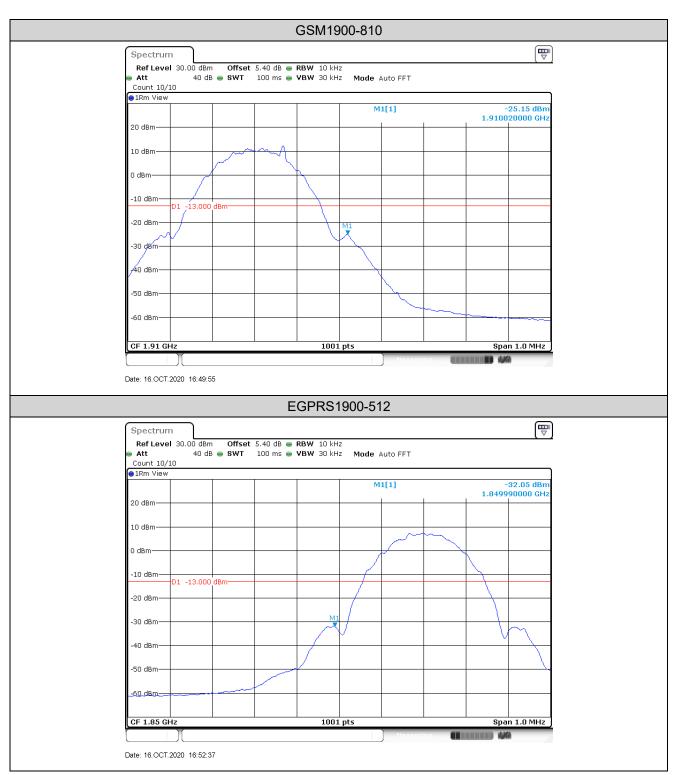
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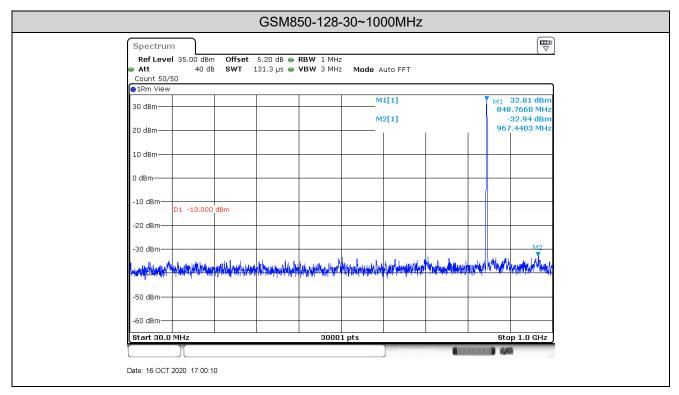
29 of 49 Page:

6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

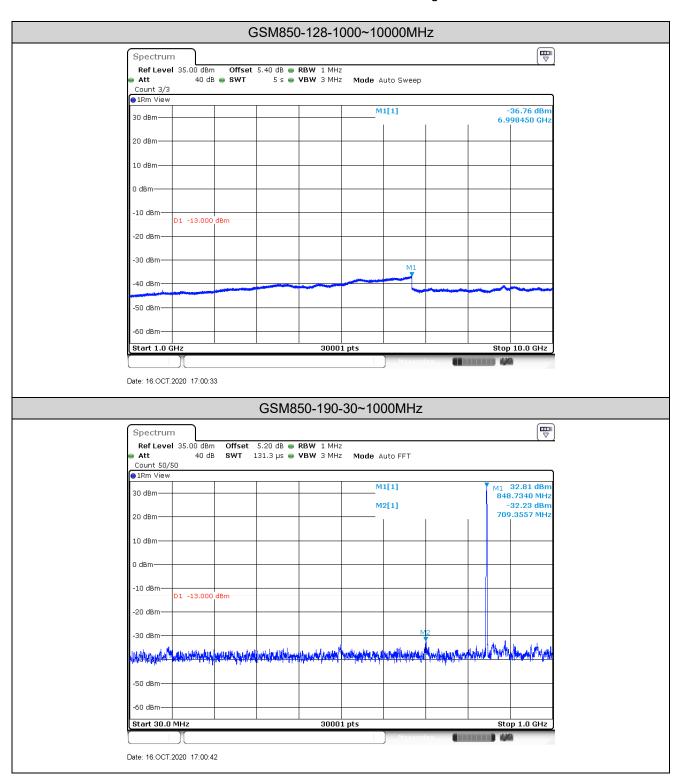
6.1. Test Plots





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30 of 49 Page:





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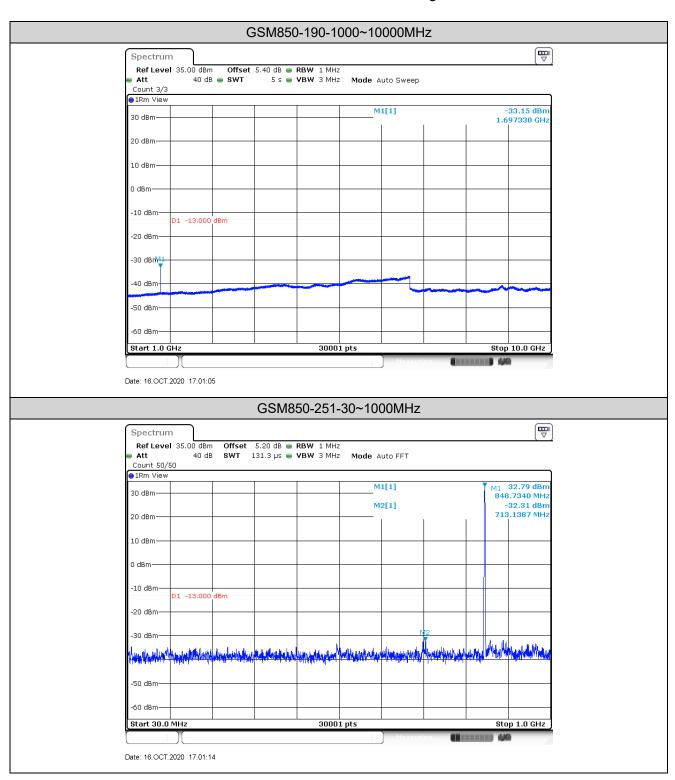
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Page: 31 of 49





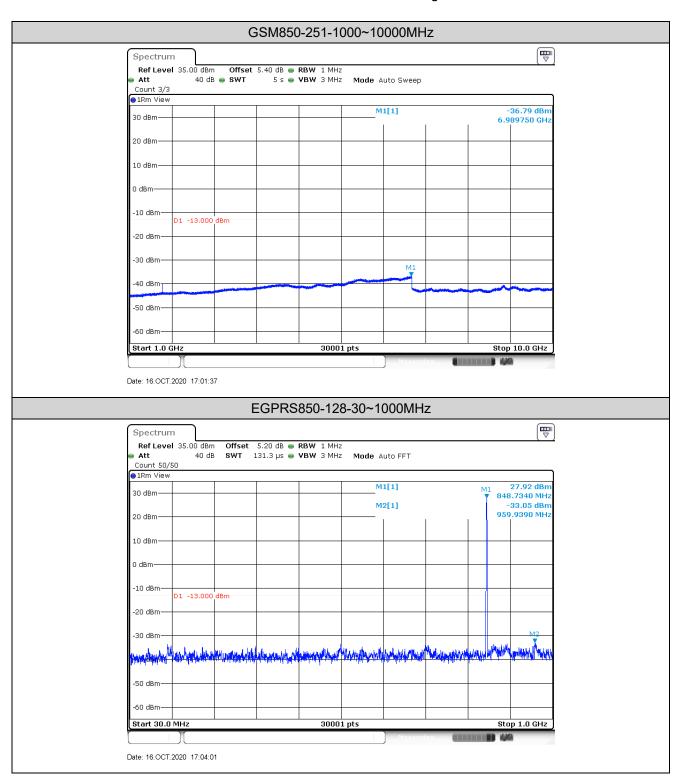
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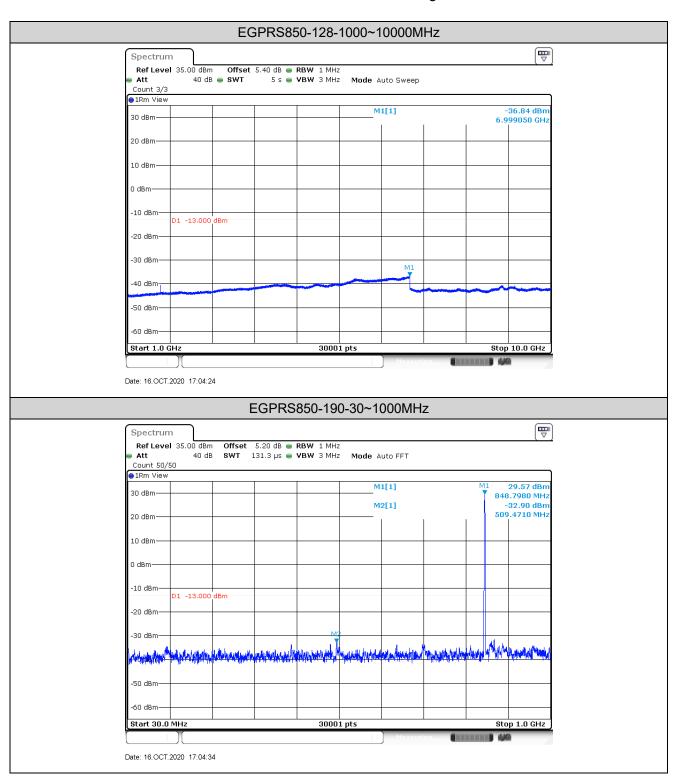
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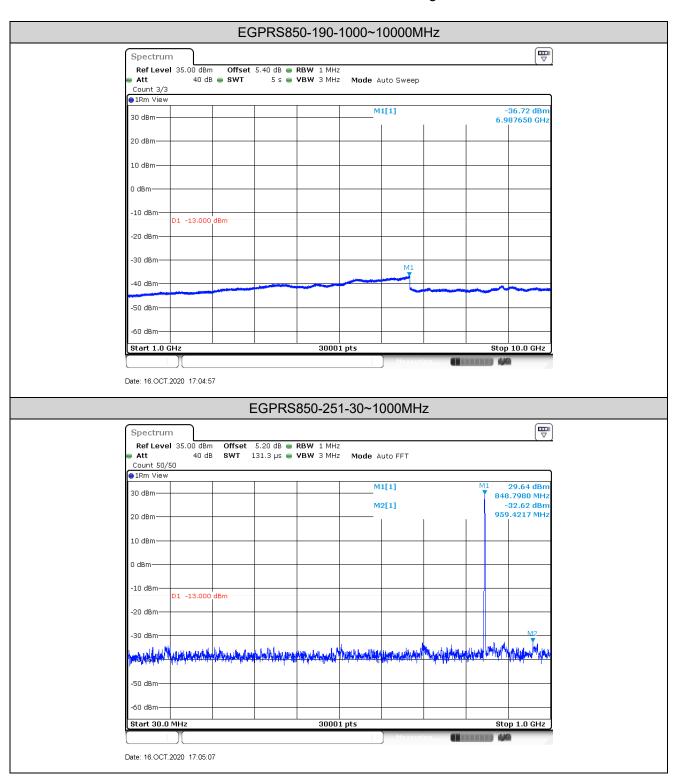
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Report No.: ZR/2020/9003701

Page: 34 of 49





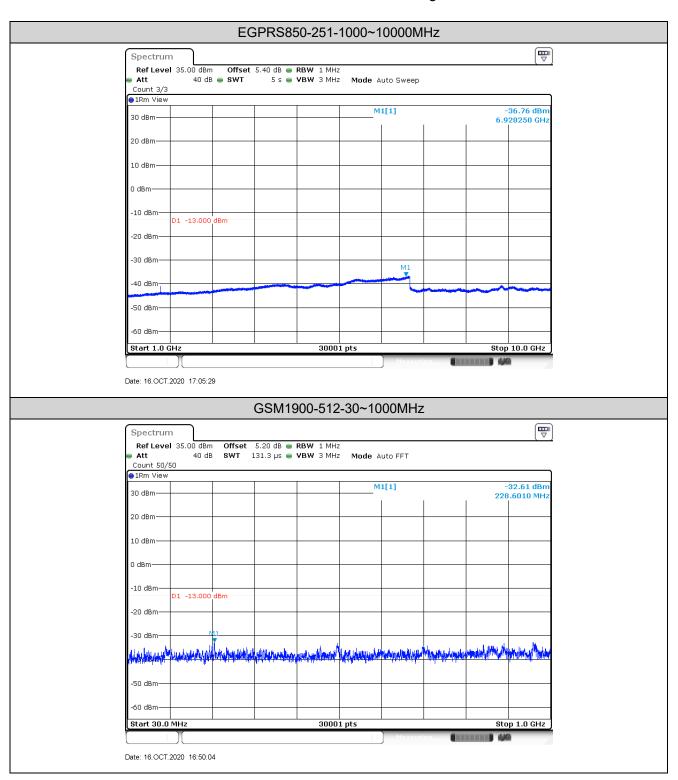
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Report No.: ZR/2020/9003701

35 of 49 Page:





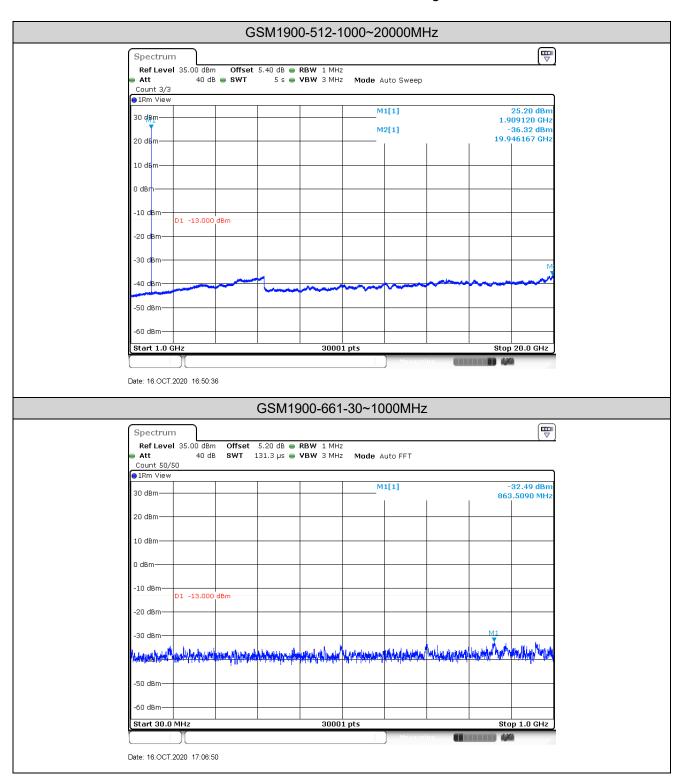
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Report No.: ZR/2020/9003701

36 of 49 Page:





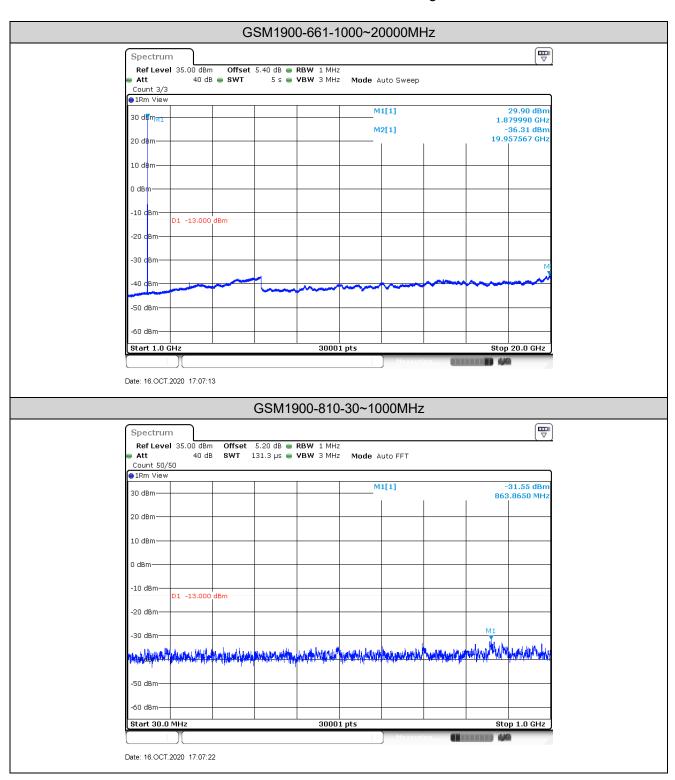
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37 of 49 Page:





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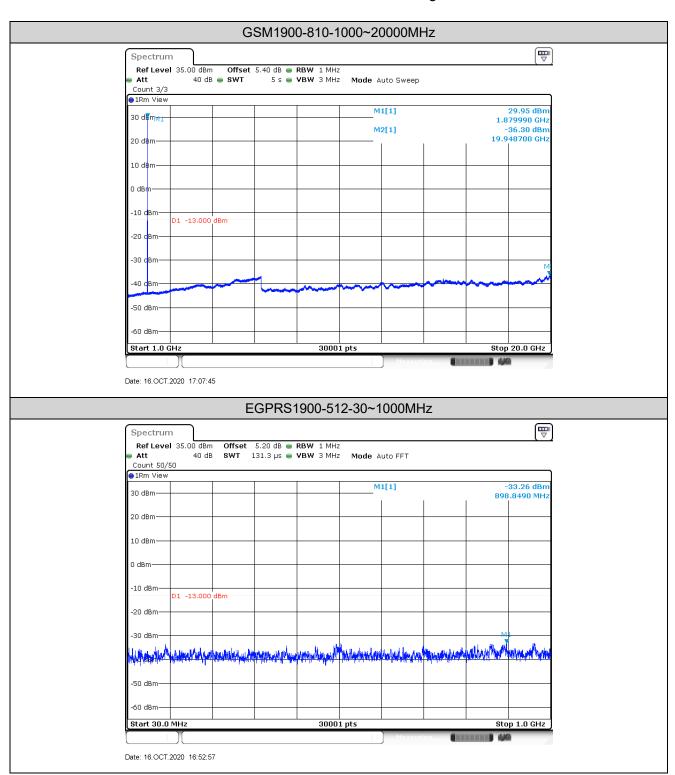
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38 of 49 Page:





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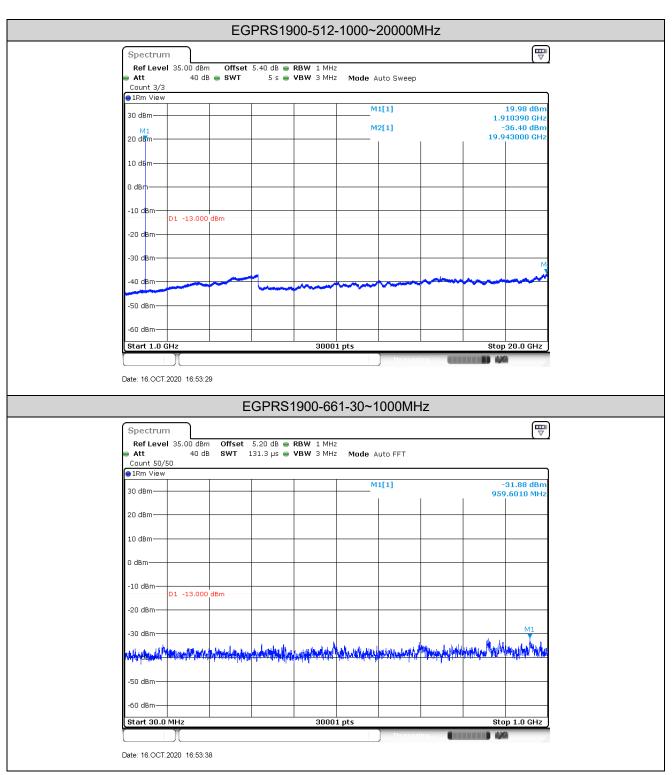
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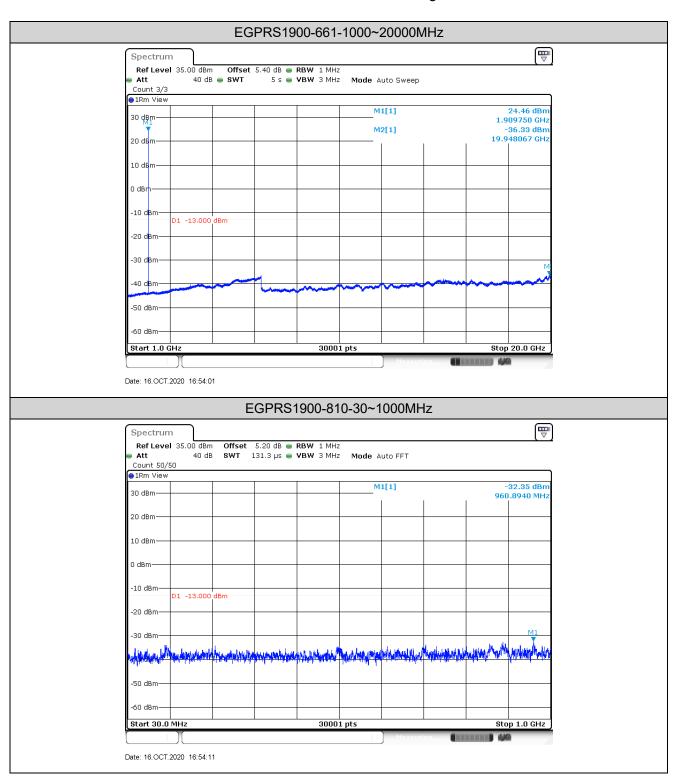
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40 of 49 Page:





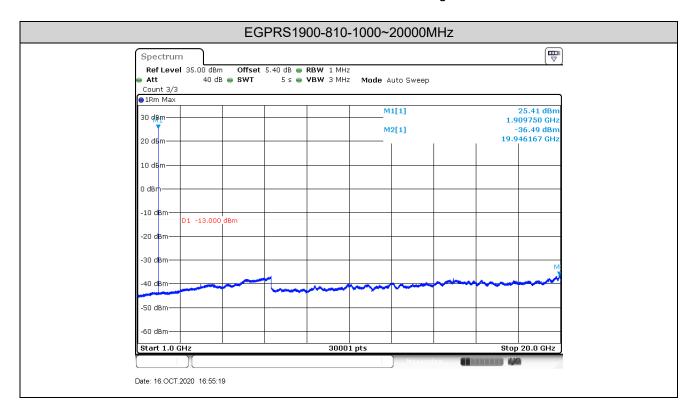
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Page: 42 of 49

7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3096	-71.66	-13.00	58.66	Vertical
110.6110	-65.10	-13.00	52.10	Vertical
637.3959	-63.62	-13.00	50.62	Vertical
3700.5234	-56.35	-13.00	43.35	Vertical
5550.0850	-61.12	-13.00	48.12	Vertical
17998.5000	-40.14	-13.00	27.14	Vertical
42.7561	-64.68	-13.00	51.68	Horizontal
84.3227	-75.88	-13.00	62.88	Horizontal
251.7531	-68.20	-13.00	55.20	Horizontal
3700.0233	-52.12	-13.00	39.12	Horizontal
5550.5850	-58.84	-13.00	45.84	Horizontal
16392.4464	-43.78	-13.00	30.78	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.1641	-70.89	-13.00	57.89	Vertical
110.6110	-65.14	-13.00	52.14	Vertical
431.3091	-67.18	-13.00	54.18	Vertical
3760.0253	-57.55	-13.00	44.55	Vertical
5640.0880	-60.38	-13.00	47.38	Vertical
17996.9999	-40.31	-13.00	27.31	Vertical
41.3011	-64.64	-13.00	51.64	Horizontal
96.9333	-75.31	-13.00	62.31	Horizontal
233.2252	-68.34	-13.00	55.34	Horizontal
3760.0253	-55.19	-13.00	42.19	Horizontal
5640.0880	-54.41	-13.00	41.41	Horizontal
16393.4464	-43.85	-13.00	30.85	Horizontal



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Page: 43 of 49

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.7461	-72.67	-13.00	59.67	Vertical
109.0590	-65.33	-13.00	52.33	Vertical
544.2712	-65.87	-13.00	52.87	Vertical
3819.5273	-57.16	-13.00	44.16	Vertical
5729.5910	-55.87	-13.00	42.87	Vertical
17997.4999	-40.43	-13.00	27.43	Vertical
44.5022	-63.65	-13.00	50.65	Horizontal
111.6296	-75.41	-13.00	62.41	Horizontal
238.7059	-67.95	-13.00	54.95	Horizontal
3819.5273	-55.95	-13.00	42.95	Horizontal
5729.5910	-48.60	-13.00	35.60	Horizontal
16397.4466	-44.07	-13.00	31.07	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3395	-63.19	-13.00	50.19	Vertical
109.9320	-64.09	-13.00	51.09	Vertical
349.0975	-67.61	-13.00	54.61	Vertical
1648.1296	-63.63	-13.00	50.63	Vertical
2699.5399	-56.65	-13.00	43.65	Vertical
9780.4260	-52.42	-13.00	39.42	Vertical
40.8160	-63.84	-13.00	50.84	Horizontal
102.8021	-74.88	-13.00	61.88	Horizontal
241.1311	-67.31	-13.00	54.31	Horizontal
1648.1296	-61.77	-13.00	48.77	Horizontal
2697.5395	-55.27	-13.00	42.27	Horizontal
9305.1102	-52.62	-13.00	39.62	Horizontal



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7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.1641	-71.71	-13.00	58.71	Vertical
115.6068	-63.37	-13.00	50.37	Vertical
349.4370	-67.47	-13.00	54.47	Vertical
1774.5549	-61.18	-13.00	48.18	Vertical
2702.3405	-56.58	-13.00	43.58	Vertical
9566.2189	-52.21	-13.00	39.21	Vertical
40.8160	-62.17	-13.00	49.17	Horizontal
99.3585	-74.32	-13.00	61.32	Horizontal
232.5461	-66.93	-13.00	53.93	Horizontal
1758.5517	-62.07	-13.00	49.07	Horizontal
2701.1402	-55.45	-13.00	42.45	Horizontal
9554.3185	-52.82	-13.00	39.82	Horizontal

7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.9700	-71.88	-13.00	58.88	Vertical
107.7979	-63.96	-13.00	50.96	Vertical
376.5498	-67.87	-13.00	54.87	Vertical
1764.1528	-62.45	-13.00	49.45	Vertical
2699.1398	-56.45	-13.00	43.45	Vertical
9916.6972	-52.46	-13.00	39.46	Vertical
42.3196	-63.10	-13.00	50.10	Horizontal
100.9590	-75.05	-13.00	62.05	Horizontal
241.6646	-67.36	-13.00	54.36	Horizontal
1773.3547	-60.85	-13.00	47.85	Horizontal
2697.9396	-55.36	-13.00	42.36	Horizontal
9339.6447	-52.80	-13.00	39.80	Horizontal

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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Page: 45 of 49

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8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict		
GSM850	128	VL	NT	-5.68	-0.006892	±2.5	PASS		
GSM850	128	VN	NT	-8.88	-0.010774	±2.5	PASS		
GSM850	128	VH	NT	-5.78	-0.007013	±2.5	PASS		
GSM850	190	VL	NT	-6.55	-0.007829	±2.5	PASS		
GSM850	190	VN	NT	-10.65	-0.012730	±2.5	PASS		
GSM850	190	VH	NT	-6.72	-0.008033	±2.5	PASS		
GSM850	251	VL	NT	-9.30	-0.010957	±2.5	PASS		
GSM850	251	VN	NT	-4.23	-0.004984	±2.5	PASS		
GSM850	251	VH	NT	-5.91	-0.006963	±2.5	PASS		
EGPRS850	128	VL	NT	4.62	0.005605	±2.5	PASS		
EGPRS850	128	VN	NT	1.84	0.002232	±2.5	PASS		
EGPRS850	128	VH	NT	2.45	0.002973	±2.5	PASS		
EGPRS850	190	VL	NT	-8.10	-0.009682	±2.5	PASS		
EGPRS850	190	VN	NT	-4.33	-0.005176	±2.5	PASS		
EGPRS850	190	VH	NT	-8.23	-0.009837	±2.5	PASS		
EGPRS850	251	VL	NT	-12.33	-0.014526	±2.5	PASS		
EGPRS850	251	VN	NT	-5.46	-0.006433	±2.5	PASS		
EGPRS850	251	VH	NT	-3.75	-0.004418	±2.5	PASS		
GSM1900	512	VL	NT	-12.66	-0.006843	±2.5	PASS		
GSM1900	512	VN	NT	-11.04	-0.005967	±2.5	PASS		
GSM1900	512	VH	NT	-9.33	-0.005043	±2.5	PASS		
GSM1900	661	VL	NT	-8.33	-0.004431	±2.5	PASS		
GSM1900	661	VN	NT	-10.01	-0.005324	±2.5	PASS		
GSM1900	661	VH	NT	-10.56	-0.005617	±2.5	PASS		
GSM1900	810	VL	NT	-14.08	-0.007372	±2.5	PASS		
GSM1900	810	VN	NT	-12.56	-0.006577	±2.5	PASS		
GSM1900	810	VH	NT	-10.36	-0.005425	±2.5	PASS		
EGPRS1900	512	VL	NT	-15.24	-0.008237	±2.5	PASS		
EGPRS1900	512	VN	NT	-15.76	-0.008518	±2.5	PASS		
EGPRS1900	512	VH	NT	-12.11	-0.006545	±2.5	PASS		



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Report No.: ZR/2020/9003701

Page: 46 of 49

EGPRS1900	661	VL	NT	-18.34	-0.009755	±2.5	PASS
EGPRS1900	661	VN	NT	-14.79	-0.007867	±2.5	PASS
EGPRS1900	661	VH	NT	-16.66	-0.008862	±2.5	PASS
EGPRS1900	810	VL	NT	-16.11	-0.008435	±2.5	PASS
EGPRS1900	810	VN	NT	-18.14	-0.009498	±2.5	PASS
EGPRS1900	810	VH	NT	-19.11	-0.010006	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature								
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
GSM850	128	NV	-30	-6.88	-0.008347	±2.5	PASS	
GSM850	128	NV	-20	-6.33	-0.007680	±2.5	PASS	
GSM850	128	NV	-10	-7.88	-0.009561	±2.5	PASS	
GSM850	128	NV	0	-3.49	-0.004234	±2.5	PASS	
GSM850	128	NV	10	-5.68	-0.006892	±2.5	PASS	
GSM850	128	NV	20	-6.36	-0.007717	±2.5	PASS	
GSM850	128	NV	30	-3.91	-0.004744	±2.5	PASS	
GSM850	128	NV	40	-8.43	-0.010228	±2.5	PASS	
GSM850	128	NV	50	-8.10	-0.009828	±2.5	PASS	
GSM850	190	NV	-30	-9.04	-0.010806	±2.5	PASS	
GSM850	190	NV	-20	-8.04	-0.009610	±2.5	PASS	
GSM850	190	NV	-10	-6.94	-0.008295	±2.5	PASS	
GSM850	190	NV	0	-6.39	-0.007638	±2.5	PASS	
GSM850	190	NV	10	-8.46	-0.010112	±2.5	PASS	
GSM850	190	NV	20	-7.91	-0.009455	±2.5	PASS	
GSM850	190	NV	30	-9.81	-0.011726	±2.5	PASS	
GSM850	190	NV	40	-8.43	-0.010077	±2.5	PASS	
GSM850	190	NV	50	-6.78	-0.008104	±2.5	PASS	
GSM850	251	NV	-30	-8.43	-0.009932	±2.5	PASS	
GSM850	251	NV	-20	-5.46	-0.006433	±2.5	PASS	
GSM850	251	NV	-10	-4.97	-0.005855	±2.5	PASS	
GSM850	251	NV	0	-13.27	-0.015634	±2.5	PASS	
GSM850	251	NV	10	-5.65	-0.006656	±2.5	PASS	
GSM850	251	NV	20	-6.49	-0.007646	±2.5	PASS	
GSM850	251	NV	30	-8.68	-0.010226	±2.5	PASS	
GSM850	251	NV	40	-5.71	-0.006727	±2.5	PASS	



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Report No.: ZR/2020/9003701

Page: 47 of 49

GSM850	251	NV	50	-3.75	-0.004418	±2.5	PASS
EGPRS850	128	NV	-30	1.03	0.001250	±2.5	PASS
EGPRS850	128	NV	-20	0.42	0.000510	±2.5	PASS
EGPRS850	128	NV	-10	-0.36	-0.000437	±2.5	PASS
EGPRS850	128	NV	0	2.68	0.003252	±2.5	PASS
EGPRS850	128	NV	10	3.81	0.004623	±2.5	PASS
EGPRS850	128	NV	20	-3.97	-0.004817	±2.5	PASS
EGPRS850	128	NV	30	1.10	0.001335	±2.5	PASS
EGPRS850	128	NV	40	0.32	0.000388	±2.5	PASS
EGPRS850	128	NV	50	2.52	0.003058	±2.5	PASS
EGPRS850	190	NV	-30	-1.87	-0.002235	±2.5	PASS
EGPRS850	190	NV	-20	-3.13	-0.003741	±2.5	PASS
EGPRS850	190	NV	-10	-6.13	-0.007327	±2.5	PASS
EGPRS850	190	NV	0	-3.97	-0.004745	±2.5	PASS
EGPRS850	190	NV	10	-7.85	-0.009383	±2.5	PASS
EGPRS850	190	NV	20	-2.65	-0.003168	±2.5	PASS
EGPRS850	190	NV	30	1.07	0.001279	±2.5	PASS
EGPRS850	190	NV	40	-1.87	-0.002235	±2.5	PASS
EGPRS850	190	NV	50	-5.88	-0.007028	±2.5	PASS
EGPRS850	251	NV	-30	-6.75	-0.007952	±2.5	PASS
EGPRS850	251	NV	-20	-6.97	-0.008212	±2.5	PASS
EGPRS850	251	NV	-10	-4.26	-0.005019	±2.5	PASS
EGPRS850	251	NV	0	-8.68	-0.010226	±2.5	PASS
EGPRS850	251	NV	10	-4.07	-0.004795	±2.5	PASS
EGPRS850	251	NV	20	-9.43	-0.011110	±2.5	PASS
EGPRS850	251	NV	30	-12.62	-0.014868	±2.5	PASS
EGPRS850	251	NV	40	-8.78	-0.010344	±2.5	PASS
EGPRS850	251	NV	50	-8.36	-0.009849	±2.5	PASS
GSM1900	512	NV	-30	-6.84	-0.003697	±2.5	PASS
GSM1900	512	NV	-20	-5.07	-0.002740	±2.5	PASS
GSM1900	512	NV	-10	-9.62	-0.005199	±2.5	PASS
GSM1900	512	NV	0	-7.59	-0.004102	±2.5	PASS
GSM1900	512	NV	10	-7.72	-0.004173	±2.5	PASS
GSM1900	512	NV	20	-7.39	-0.003994	±2.5	PASS
GSM1900	512	NV	30	-6.39	-0.003454	±2.5	PASS
GSM1900	512	NV	40	-8.68	-0.004691	±2.5	PASS
GSM1900	512	NV	50	-16.59	-0.008967	±2.5	PASS



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Report No.: ZR/2020/9003701

Page: 48 of 49

GSM1900 661 NV -30 -9.20 -0.004894 ±2.5 PA	ASS
GSM1900 661 NV -20 -9.88 -0.005255 ±2.5 PA	ASS
GSM1900 661 NV -10 -8.62 -0.004585 ±2.5 PA	ASS
GSM1900 661 NV 0 -13.24 -0.007043 ±2.5 PA	ASS
GSM1900 661 NV 10 -7.88 -0.004191 ±2.5 PA	ASS
GSM1900 661 NV 20 -12.37 -0.006580 ±2.5 PA	ASS
GSM1900 661 NV 30 -11.98 -0.006372 ±2.5 PA	ASS
GSM1900 661 NV 40 -18.40 -0.009787 ±2.5 PA	ASS
GSM1900 661 NV 50 -9.56 -0.005085 ±2.5 PA	ASS
GSM1900 810 NV -30 -11.91 -0.006236 ±2.5 PA	ASS
GSM1900 810 NV -20 -9.56 -0.005006 ±2.5 PA	ASS
GSM1900 810 NV -10 -9.72 -0.005090 ±2.5 PA	ASS
GSM1900 810 NV 0 -12.01 -0.006289 ±2.5 PA	ASS
GSM1900 810 NV 10 -11.91 -0.006236 ±2.5 PA	ASS
GSM1900 810 NV 20 -10.01 -0.005241 ±2.5 PA	ASS
GSM1900 810 NV 30 -9.43 -0.004938 ±2.5 PA	ASS
GSM1900 810 NV 40 -7.20 -0.003770 ±2.5 PA	ASS
GSM1900 810 NV 50 -7.30 -0.003822 ±2.5 PA	ASS
EGPRS1900 512 NV -30 -12.75 -0.006891 ±2.5 PA	ASS
EGPRS1900 512 NV -20 -14.59 -0.007886 ±2.5 PA	ASS
EGPRS1900 512 NV -10 -12.56 -0.006788 ±2.5 PA	ASS
EGPRS1900 512 NV 0 -13.08 -0.007070 ±2.5 PA	ASS
EGPRS1900 512 NV 10 -19.44 -0.010507 ±2.5 PA	ASS
EGPRS1900 512 NV 20 -9.69 -0.005237 ±2.5 PA	ASS
EGPRS1900 512 NV 30 -17.89 -0.009669 ±2.5 PA	ASS
EGPRS1900 512 NV 40 -17.31 -0.009356 ±2.5 PA	ASS
EGPRS1900 512 NV 50 -11.95 -0.006459 ±2.5 PA	ASS
EGPRS1900 661 NV -30 -15.43 -0.008207 ±2.5 PA	ASS
EGPRS1900 661 NV -20 -12.66 -0.006734 ±2.5 PA	ASS
EGPRS1900 661 NV -10 -20.89 -0.011112 ±2.5 PA	ASS
EGPRS1900 661 NV 0 -15.17 -0.008069 ±2.5 PA	ASS
EGPRS1900 661 NV 10 -16.24 -0.008638 ±2.5 PA	ASS
EGPRS1900 661 NV 20 -14.50 -0.007713 ±2.5 PA	ASS
EGPRS1900 661 NV 30 -12.11 -0.006441 ±2.5 PA	ASS
EGPRS1900 661 NV 40 -15.34 -0.008160 ±2.5 PA	ASS
EGPRS1900 661 NV 50 -18.05 -0.009601 ±2.5 PA	ASS
EGPRS1900 661 NV 50 -18.05 -0.009601 ±2.5 PA	



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Report No.: ZR/2020/9003701

Page: 49 of 49

EGPRS1900	810	NV	-20	-20.05	-0.010498	±2.5	PASS
EGPRS1900	810	NV	-10	-15.95	-0.008352	±2.5	PASS
EGPRS1900	810	NV	0	-18.63	-0.009755	±2.5	PASS
EGPRS1900	810	NV	10	-10.36	-0.005425	±2.5	PASS
EGPRS1900	810	NV	20	-16.56	-0.008671	±2.5	PASS
EGPRS1900	810	NV	30	-11.36	-0.005948	±2.5	PASS
EGPRS1900	810	NV	40	-18.47	-0.009671	±2.5	PASS
EGPRS1900	810	NV	50	-17.66	-0.009247	±2.5	PASS

The End



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